

SPECIAL SPECIFICATION

SECTION 07260S

VAPOR RETARDERS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Section includes sheet and sealant materials for controlling vapor diffusion.
- B. Vapor retarders/barriers are required on all gypsum board sheathing within brick cavity air space.

1.02 RELATED SECTIONS

- A. Section 07260 - Vapor Retarders.
- B. Section 07920 - Joint Sealants.

1.03 REFERENCES

- A. ASTM D 491 - Asphalt Mastic Used on Waterproofing.
- B. ASTM E 96 - Water Vapor Transmission of Materials.

1.04 PERFORMANCE REQUIREMENTS

- A. Maximum Vapor Permeability (Perm): 1 ng/S/m/Pa measured in accordance with ASTM E 96 Method E.

1.05 SUBMITTALS

- A. Product Data: Submit data indicating material characteristics, performance criteria, and limitations.
- B. Manufacturer's Installation Instructions: Submit preparation and installation requirements, techniques.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with SWRI - Sealant and Caulking Guide Specification requirements for materials and installation.

1.07 SEQUENCING

- A. Sequence Work to permit installation of materials in conjunction with other retardant materials and seals, and air barrier assemblies specified in Section 07260.
- B. Do not install vapor retarder until items penetrating it are in place.

PART 2 - PRODUCTS

2.01 VAPOR RETARDERS

- A. Manufacturers:
 - 1. Alumiseal Corp.
 - 2. Fiberweb Corp.
 - 3. Fi-Foil Co., Inc.
 - 4. Fortifiber Corp.
 - 5. Griffolyn, Reef Industries.
 - 6. Lamtec Corp.
 - 7. Raven Industries.
 - 8. "Tyvek" as manufactured by DuPont.

2.02 COMPONENTS

- A. Moisture/vapor barriers/retarders on horizontal surfaces shall be equal to "Vycor Ultra" as manufactured by W.R. Grace. Moisture/vaport barriers/retarders on vertical surfaces shall be equal to "Tyvek" as manufactured by DuPont.
- B. Sealant: Type specified in Section 07920.
- C. Primer and Backer Rods: Recommended by sealant manufacturer to suit application.
- D. Cleaner: Noncorrosive type; recommended by sealant manufacturer; compatible with adjacent materials.
- E. Mastic Adhesive: ASTM D 491, asphalt type, compatible with sheet retarder and substrate, thick mastic of uniform consistency.

2.03 ACCESSORIES

- A. Tape: Polyethylene self-adhering type, mesh reinforced, 2 inch (50 mm) wide, compatible with sheet material.

- B. Attachments: Galvanized steel bars and anchors.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Remove loose or foreign matter which might impair adhesion.
- B. Clean and prime substrate surfaces to receive adhesive and sealants.

3.02 EXISTING WORK

- A. Clean and repair existing construction to provide positive and continuous seal for vapor retarders.

3.03 INSTALLATION

- A. Vapor Retarder For Solid Substrate: Secure sheet retarder to solid construction with adhesive. Lap edges and ends 6 inches (150 mm) and calk with sealant to ensure complete and continuous seal.
- B. Vapor Retarder For Wall/Roof Junction: Lap sheet retarder from wall retarder onto roof vapor retarder continuously. Seal edges and ends with sealant .Calk with sealant to ensure complete seal. Position laps over firm bearing.
- C. Vapor Retarder Seal For Openings: Install sheet retarder between window and door frames and adjacent vapor retarder and seal with sealant. Calk with sealant to ensure complete seal. Position laps over firm bearing.
- D. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges or where compatibility with adjacent materials may be in doubt.

END OF SECTION